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Safety Information

	The lightning flash with arrow head within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Class B emissions limits

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Important Safety Instruction

1. Do not block any ventilation openings. To ensure reliable operation of the projector and to protect from over heating, it is recommended to install the projector in a location that does not block ventilation. As an example, do not place the projector on a crowded coffee table, sofa, bed, etc. Do not put the projector in an enclosure such as a book case or a cabinet that restricts air flow.
2. Do not use the projector near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the projector to rain or moisture.
3. Do not install near heat sources such as radiators, heaters, stoves or any other apparatus such as amplifiers that emits heat.
4. Clean only with dry cloth.
5. Only use attachments/accessories specified by the manufacturer.
6. Do not use the unit if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
   - ❒ Unit has been dropped.
   - ❒ Power supply cord or plug has been damaged.
   - ❒ Liquid has been spilled on to the projector.
   - ❒ Projector has been exposed to rain or moisture.
   - ❒ Something has fallen in the projector or something is loose inside.

   Do not attempt to service the unit yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the unit for repair.
7. Do not let objects or liquids enter the projector. They may touch dangerous voltage points and short out parts that could result in fire or electric shock.
8. See projector enclosure for safety related markings.
9. The unit should only be repaired by appropriate service personnel.

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Precautions

Please follow all warnings, precautions and maintenance as recommended in this user's guide.

- Warning- Do not look into the projector's lens when the lamp is on. The bright light may hurt and damage your eyes.
- Warning- To reduce the risk of fire or electric shock, do not expose this projector to rain or moisture.
- Warning- Please do not open or disassemble the projector as this may cause electric shock.
- Warning- When replacing the lamp, please allow the unit to cool down. Follow instructions as described on pages 53-54.
- Warning- This projector will detect the life of the lamp itself. Please be sure to change the lamp when it shows warning messages.
- Warning- Reset the "Lamp Reset" function from the on-screen display "OPTIONS | Lamp Settings" menu after replacing the lamp module (refer to page 47).
- Warning- When switching the projector off, please ensure the cooling cycle has been completed before disconnecting power. Allow 90 seconds for the projector to cool down.
- Warning- Do not use lens cap when projector is in operation.
- Warning- When the lamp is approaching the end of its lifetime, the message "Lamp Warning: Lamp life exceeded." will show on the screen. Please contact your local reseller or service center to change the lamp as soon as possible.
- Warning- Do not look into or point the laser pointer on your remote control into your or someone's eyes. Laser pointer can cause permanent damage to eyesight.

- When the lamp reaches the end of its life, the projector will not turn back on until the lamp module has been replaced. To replace the lamp, follow the procedures listed under "Replacing the Lamp" section on pages 53-54.

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Usage Notice

Do:

- Turn off and unplug the power plug from the AC outlet before cleaning the product.
- Use a soft dry cloth with mild detergent to clean the display housing.
- Disconnect the power plug from AC outlet if the product is not being used for a long period of time.

Do not:

- Block the slots and openings on the unit provided for ventilation.
- Use abrasive cleaners, waxes or solvents to clean the unit.
- Use under the following conditions:
  - In extremely hot, cold or humid environments.
    - Ensure that the ambient room temperature is within 5 - 35°C.
    - Relative Humidity is 5 - 35°C, 80% (Max.), non-condensing.
  - In areas susceptible to excessive dust and dirt.
  - Near any appliance generating a strong magnetic field.
  - In direct sunlight.

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Eye Safety Warnings

- Avoid staring/facing directly into the projector beam at all times. Keep your back to the beam as much as possible.
- When projector is used in a classroom, adequately supervise students when they are asked to point out something on the screen.
- In order to minimize the lamp power, use room blinds to reduce ambient light levels.

Product Features

- XGA (1024x768) Native resolution / WXGA (1280x800) Native resolution
- HD compatible – 1080p supported
- VGA monitor loop through (works on standby mode > 1W)
- BrilliantColor™ Technology
- Security Bar and Kensington Lock
- RS232 control
- Rapid shutdown
- Built-in speakers
- Network support

NOTE

- Monitor loop through only support in VGA1-In/ SCART/YPbPr.

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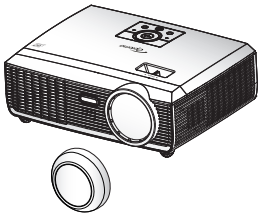
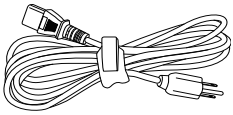
Package Overview

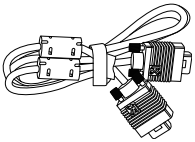
Unpack and inspect the box contents to ensure all parts listed below are in the box. If something is missing, please contact your nearest customer service center.



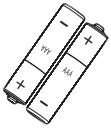
Projector with lens cap



Power Cord 1.8m



VGA Cable 1.8m



2 × AAA Batteries

IR Remote Control

NOTE

- Due to different applications in each Country, some regions may have different accessories.

Documentation :

- ☑ User's Manual
- ☑ Warranty Card
- ☑ Quick Start Card
- ☑ WEEE Card (for EMEA only)

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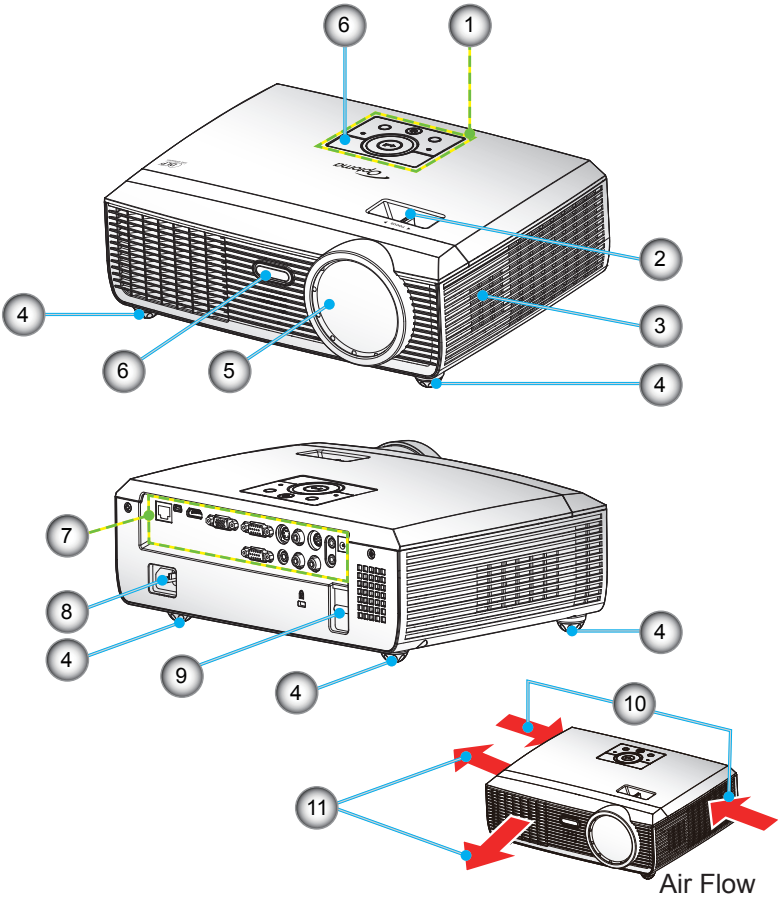
Product Overview

Main Unit



1. Control Panel
2. Focus Ring
3. Speaker
4. Tilt-Adjustment Feet
5. Lens
6. IR Receiver
7. Input / Output Connections
8. Power Socket
9. Security Bar
10. Ventilation (inlet)
11. Ventilation (outlet)

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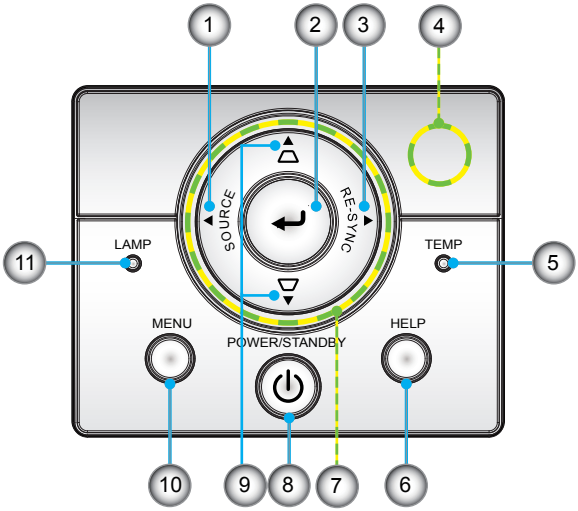
Control Panel



1. Source
2. Enter
3. Re-Sync
4. IR Receiver
5. Temp LED
6. Help
7. Four Directional Select Keys
8. Power/Standby button and LED
9. Keystone Correction
10. Menu
11. Lamp LED

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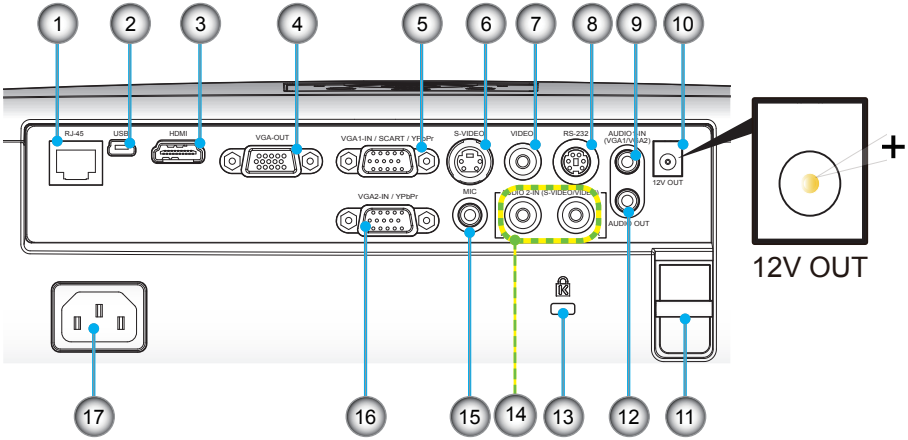
Input/Output Connections



1. RJ-45 Networking Connector
2. USB Connector (Connect to PC for Remote Mouse function)
3. HDMI Connector
4. VGA-Out Connector (Monitor Loop-through Output)
5. VGA1-In/SCART/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr/SCART)
6. S-Video Input Connector
7. Composite Video Input Connector
8. RS-232 Connector (3-pin DIN Type)
9. Audio 1 Input connector (3.5mm mini jack) (for VGA1/VGA2)
10. 12V Trigger Relay Connector (12V, 750mA)
11. Security Bar
12. Audio Output Connector (3.5mm Mini Jack)
13. Kensington™ Lock Port
14. RCA Audio 2 Input connector (Left & Right) (for S-Video/Video)
15. Microphone Input Connector
16. VGA2-In/YPbPr Connector (PC Analog Signal/Component Video Input/HDTV/YPbPr)
17. Power Socket

NOTE

- Monitor loop through only support in VGA1-In/SCART/YPbPr.

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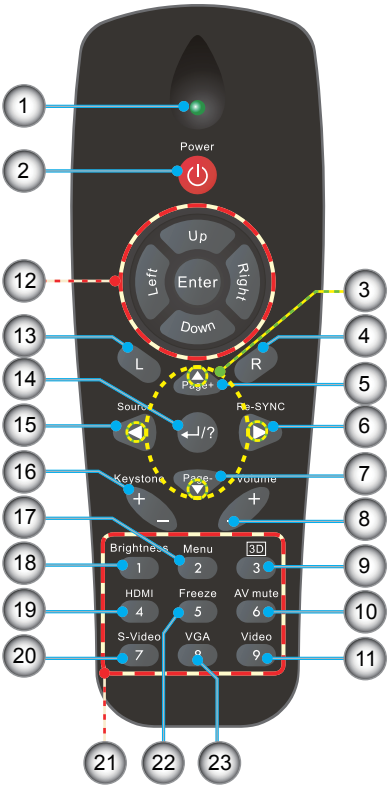
Remote Control



1. LED Indicator
2. Power On/Off
3. Four Directional Select Keys
4. Mouse Right Click
5. Page Up
6. Re-Sync
7. Page Down
8. Volume +/-
9. 3D
10. AV mute
11. Video
12. PC/Mouse control
13. Mouse Left Click
14. Enter/Help
15. Source
16. Keystone +/-
17. Menu
18. Brightness
19. HDMI
20. S-Video
21. Numbered keypad (for password input)
22. Freeze
23. VGA

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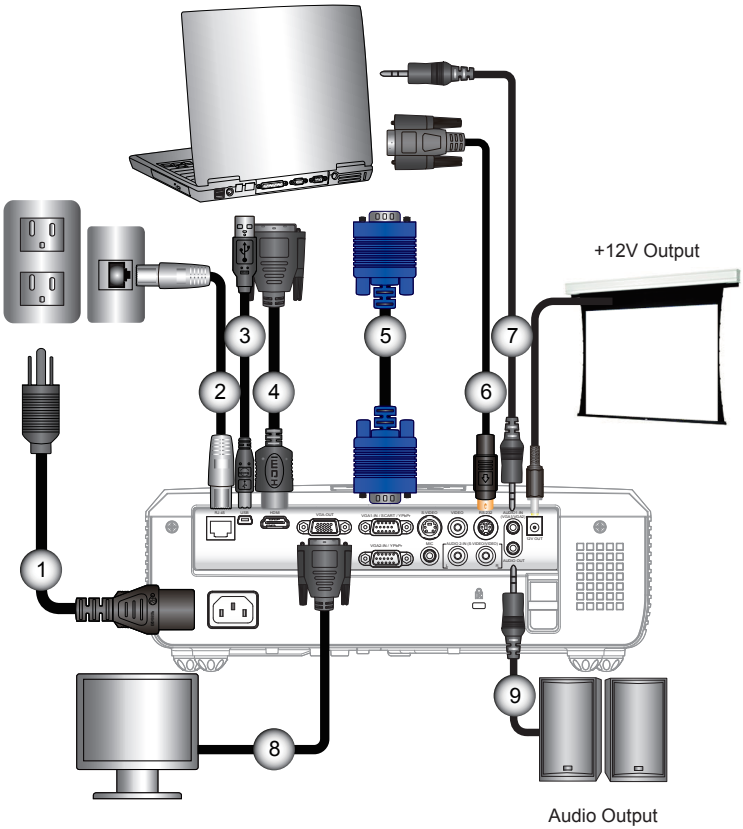
Connecting the Projector

Connect to Computer/Notebook



- Due to the difference in applications for each country, some regions may have different accessories.
- (*) Optional accessory

1.....Power Cord
2.....*Network Cable
3.....*USB Cable
4.....*DVI/HDMI Cable
5.....VGA Cable
6.....*RS232 Cable
7.....*Audio Input Cable
8.....*VGA Output Cable
9.....*Audio Output Cable

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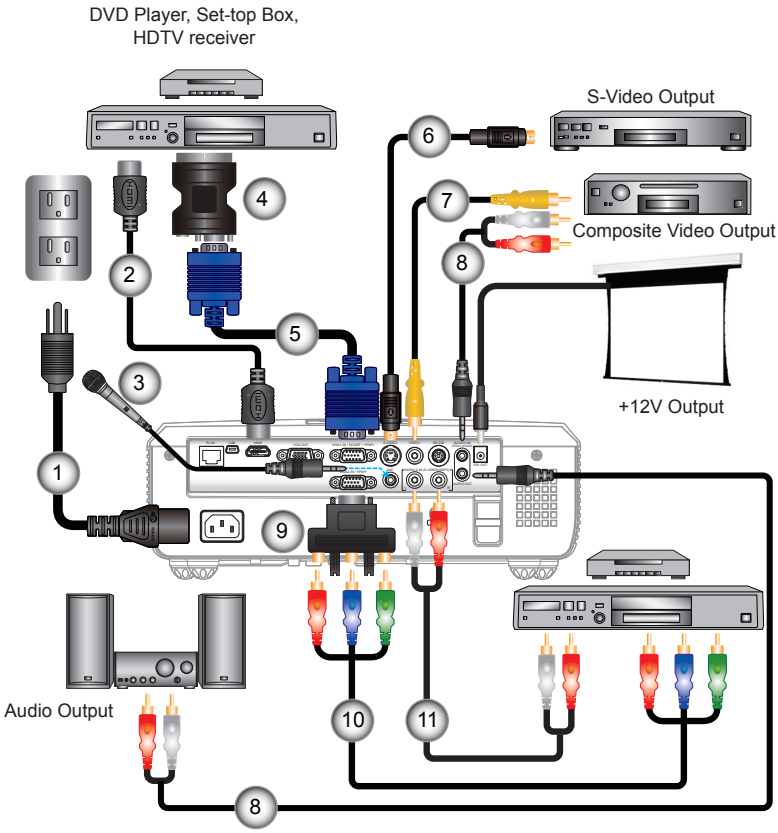
Connect to Video Sources



- Due to the difference in applications for each country, some regions may have different accessories.
- (*) Optional accessory

1	Power Cord
2	*HDMI Cable
3	*Microphone Cable
4	*SCART/VGA Adaptor
5	VGA Cable
6	*S-Video Cable
7	*Composite Video Cable
8	*Audio Cable Jack/RCA
9	*15-Pin to 3 RCA Component/HDTV Adaptor
10	*3 RCA Component Cable
11	*Audio Cable RCA/RCA

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Powering the projector On / Off

Powering On the Projector

1. Remove the lens cap. ❶
2. Securely connect the power cord and signal cable. When connected, the POWER/STANDBY LED will turn Amber.
3. Turn on the lamp by pressing "⏻" button either on the top of the projector or on the remote. The POWER/STANDBY LED will now turn Green. ❷

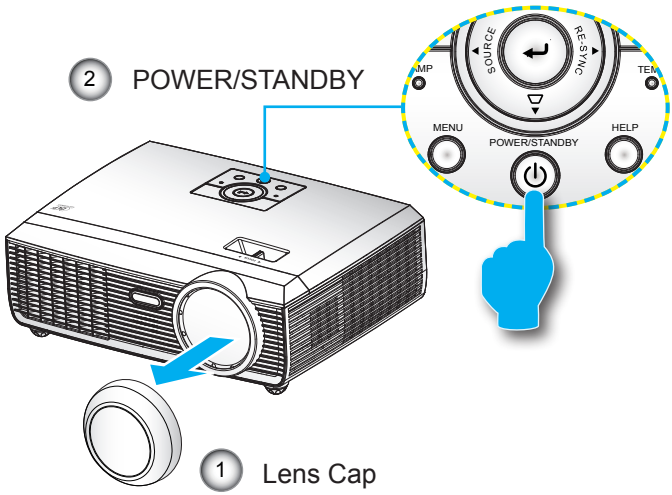
   The startup screen will display in approximately 10 seconds. The first time you use the projector, you will be asked to select the preferred language and power saving mode.

4. Turn on and connect the source that you want to display on the screen (computer, notebook, video player, etc). The projector will detect the source automatically. If not, push menu button and go to "OPTIONS".
   Make sure that the "Source Lock" has been set to "Off".

❖ If you connect multiple sources at the same time, press the "SOURCE" button on the control panel or direct source keys on the remote control to switch between inputs.

NOTE

❖ (*) When Power mode (Standby) is set to Eco, the VGA & Audio pass-through and RS-232 will be deactivated when the projector is in standby.



NOTE

❖ Turn on the projector first and then select the signal sources.

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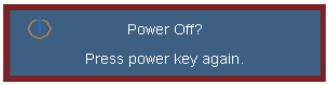
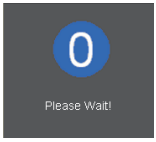
Powering Off the Projector

1. Press the "⏻" button on the remote control or on the control panel to turn off the projector. The following message will be displayed on the screen.





Press the "⏻" button again to confirm otherwise the message will disappear after 15 seconds. When you press the "⏻" button for the second time, the projector will display countdown timer and will shut down.

2. The cooling fans continue to operate for about 10 seconds for cooling cycle and the POWER/STANDBY LED will Flash Green. When the POWER/STANDBY LED lights solid Amber, the projector has entered standby mode.

   If you wish to turn the projector back on, you must wait until the projector has completed the cooling cycle and has entered standby mode. Once in standby mode, simply press "⏻" button to restart the projector.

3. Disconnect the power cord from the electrical outlet and the projector.
4. Do not turn on the projector immediately following a power off procedure.

Warning Indicator

When the warning indicators (see below) come on, the projector will automatically shutdown:

- "LAMP" LED indicator is lit red and if "POWER/STANDBY" indicator flashes amber.
- "TEMP" LED indicator is lit red and if "POWER/STANDBY" indicator flashes amber. This indicates the projector has overheated. Under normal conditions, the projector can be switched back on.
- "TEMP" LED indicator flashes red and if "POWER/STANDBY" indicator flashes amber.

Unplug the power cord from the projector, wait for 30 seconds and try again. If the warning indicator light up again, please contact your nearest service center for assistance.

NOTE

- Contact the nearest service center if the projector displays these symptoms. See pages 63-64 for more information.

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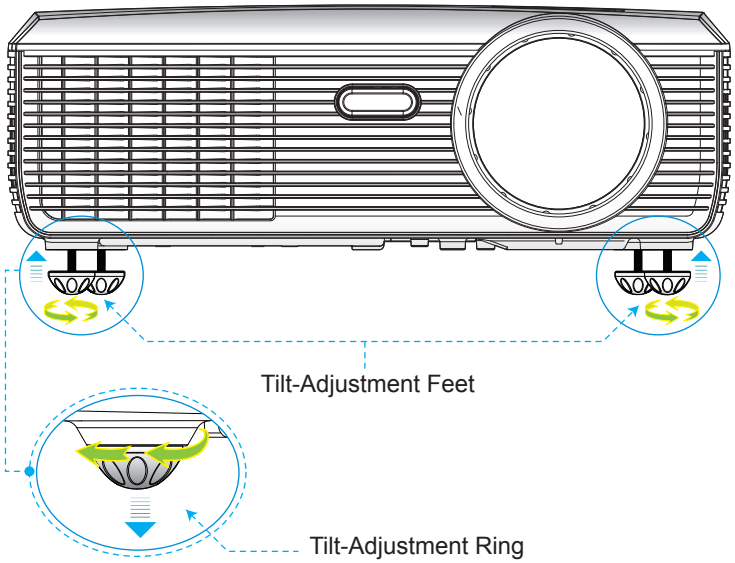
Adjusting the Projected Image

Adjusting the Projector's Height

The projector is equipped with elevator feet for adjusting the image height.

1. Locate the adjustable foot you wish to modify on the underside of the projector.
2. Rotate the adjustable ring counter clockwise to raise the projector or clockwise to lower it. Repeat with the remaining feet as needed.



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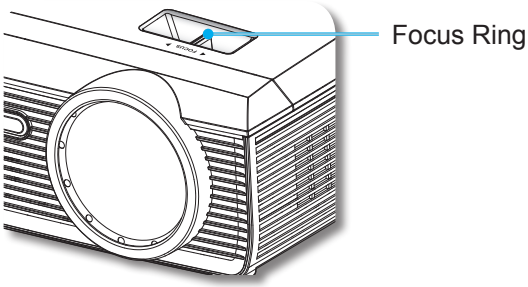
Adjusting the Projector's Focus

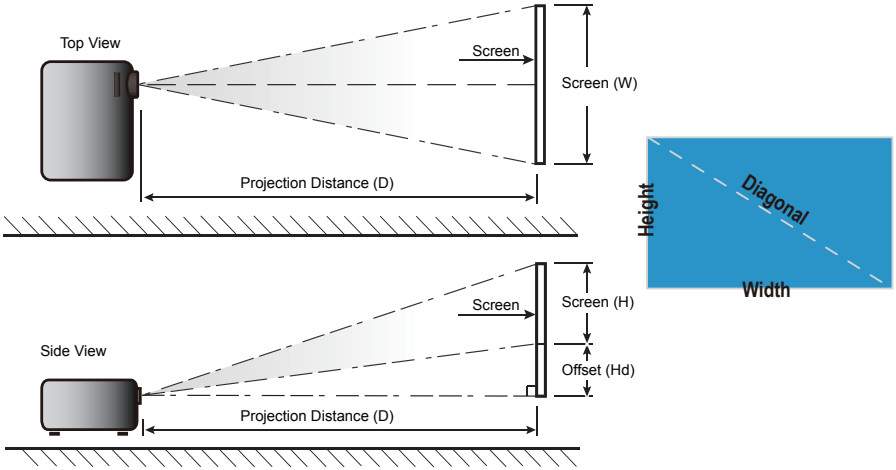
To focus the image, rotate the focus ring until the image is clear.

- XGA series: The projector will focus at distances from 1.64 to 12.46 feet (0.5 to 3.8 meters).
- WXGA series: The projector will focus at distances from 1.64 to 11.15 feet (0.5 to 3.4 meters).



Adjusting Projection Image Size

- XGA series: Projection Image Size from 39.3" to 300" (1.0 to 7.6 meters).
- WXGA series: Projection Image Size from 44.6" to 300" (1.1 to 7.6 meters).



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XGA

Diagonal length (inch) size of 4:3 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)	
	(m)		(feet)		(m)		(feet)			
	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
40.00	0.81	0.61	2.66	2.00	0.50	0.50	1.64	1.64	0.09	0.30
60.00	1.22	0.91	4.00	2.98	0.80	0.80	2.62	2.62	0.14	0.45
70.00	1.42	1.07	4.66	3.51	0.90	0.90	2.95	2.95	0.16	0.53
80.00	1.63	1.22	5.35	4.00	1.00	1.00	3.28	3.28	0.18	0.60
90.00	1.83	1.37	6.00	4.49	1.10	1.10	3.61	3.61	0.21	0.67
100.00	2.03	1.52	6.66	4.99	1.30	1.30	4.26	4.26	0.23	0.75
120.00	2.44	1.83	8.00	6.00	1.50	1.50	4.92	4.92	0.27	0.90
150.00	3.05	2.29	10.00	7.51	1.90	1.90	6.23	6.23	0.34	1.13
180.00	3.66	2.74	12.00	8.99	2.30	2.30	7.54	7.54	0.41	1.35
250.00	5.08	3.81	16.66	12.50	3.20	3.20	10.50	10.50	0.57	1.87
300.00	6.10	4.57	20.01	14.99	3.80	3.80	12.46	12.46	0.69	2.25

❖ This table is for user's reference only.

WXGA

Diagonal length (inch) size of 16:10 Screen	Screen Size W x H				Projection Distance (D)				Offset (Hd)	
	(m)		(feet)		(m)		(feet)			
	Width	Height	Width	Height	wide	tele	wide	tele	(m)	(feet)
40.00	0.86	0.54	2.82	1.77	0.40	0.40	1.31	1.31	0.07	0.22
60.00	1.29	0.81	4.23	2.66	0.70	0.70	2.30	2.30	0.10	0.33
70.00	1.51	0.94	4.95	3.08	0.80	0.80	2.62	2.62	0.12	0.38
80.00	1.72	1.08	5.64	3.54	0.90	0.90	2.95	2.95	0.13	0.44
90.00	1.94	1.21	6.36	3.97	1.00	1.00	3.28	3.28	0.15	0.49
100.00	2.15	1.35	7.05	4.43	1.10	1.10	3.61	3.61	0.17	0.55
120.00	2.58	1.62	8.46	5.31	1.30	1.30	4.26	4.26	0.20	0.66
150.00	3.23	2.02	10.59	6.63	1.70	1.70	5.58	5.58	0.25	0.82
180.00	3.88	2.42	12.73	7.94	2.00	2.00	6.56	6.56	0.30	0.98
250.00	5.38	3.37	17.65	11.05	2.80	2.80	9.18	9.18	0.42	1.37
300.00	6.46	4.04	21.19	13.25	3.40	3.40	11.15	11.15	0.50	1.64

❖ This table is for user's reference only.

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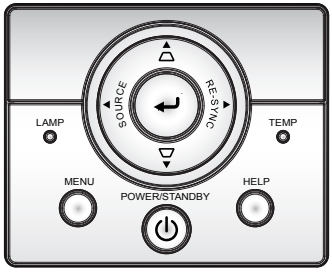
Control Panel & Remote Control

Control Panel



Using the Control Panel		
POWER	⏻	Refer to the “Power On/Off the Projector” section on pages 13-14.
RE-SYNC		Automatically synchronize the projector to the input source.
Enter	↵	Confirm your item selection.
SOURCE		Press “SOURCE” to select an input signal.
Menu		Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, Press “Menu” again.
Four Directional Select Keys		Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Keystone		Use ▽ △ to adjust image distortion caused by tilting the projector. (±40 degrees)
HELP		Help Menu (refer to page 21).
Lamp LED	⏻ ○	Indicate the projector’s lamp status.
Temp LED	🌡 ○	Indicate the projector’s temperature status.
POWER/ STANDBY LED	⏻ ○	Indicate the projector’s status.

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Remote Control

Using the Remote Control	
Power	Refer to the “Power On/Off the Projector” section on pages 13-14.
L Button	Mouse left click.
R Button	Mouse right click.
Page +	Use this button to page up.
Page -	Use this button to page down.
Enter ↵ / Help ?	↵ Confirm your item selection. ? Help Menu (refer to page 21).
Source	Press “Source” to select an input signal.
Re-SYNC	Automatically synchronizes the projector to the input source.
Four Directional Select Keys	Use ▲ ▼ ◀ ▶ to select items or make adjustments to your selection.
Keystone +/-	Adjust image distortion caused by tilting the projector.
Volume +/-	Adjust to increase / decrease the volume.
Brightness	Adjust the brightness of the image.
3D	Press the “3D” to turn the 3D OSD menu on/off.
Menu	Press “Menu” to launch the on-screen display (OSD) menu. To exit OSD, press “Menu” again.
HDMI	Press “HDMI” to choose HDMI source.
Freeze	Press “Freeze” to pause the screen image. Press this button again to unlock.

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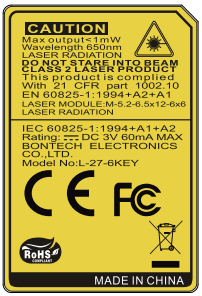

Using the Remote Control	
AV mute	Momentarily turns off/on the audio and video.
S-Video	Press “S-Video” to choose S-Video source.
VGA	Press “VGA” to choose VGA sources.
Video	Press “Video” to choose Composite video source.

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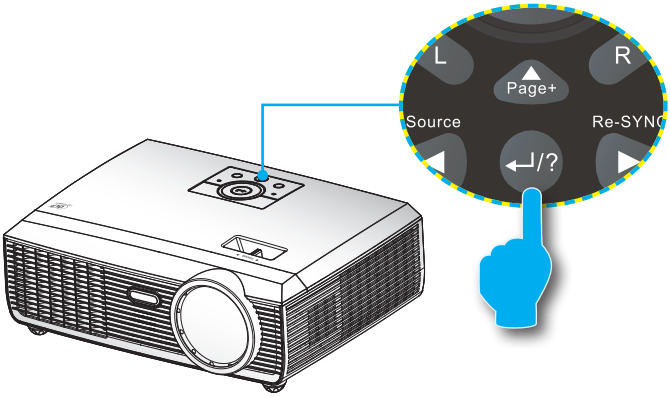
Using the HELP button

The HELP function ensures easy setup and operation.

- Press the “?” button on the remote control or press the “HELP” button on the control panel to open the Help Menu.



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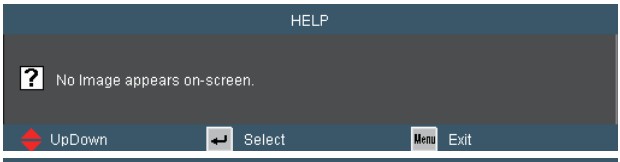
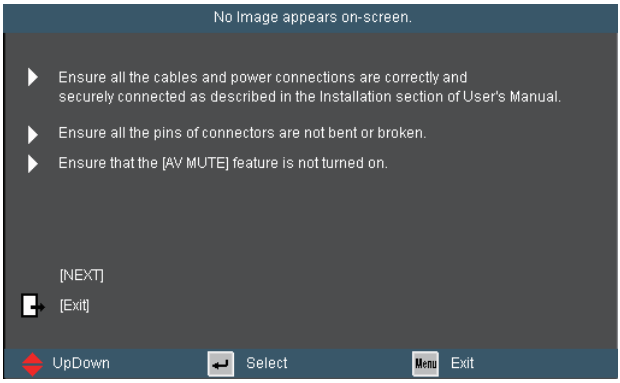
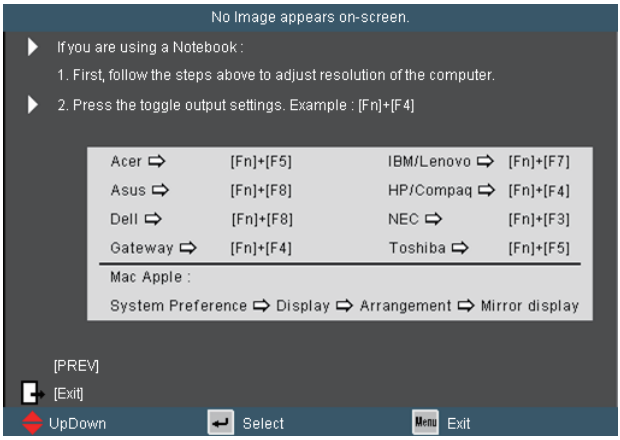
- Help menu button functions only when no input source is detected.



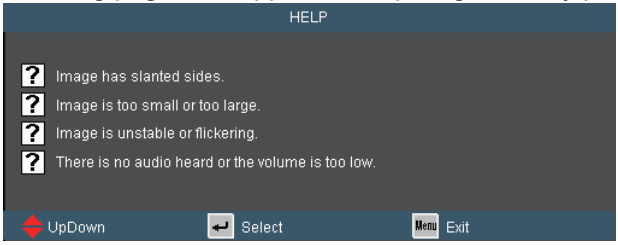

No Image appears on-screen.
Ensure all the cables and power connections are correctly and securely connected as described in the Installation section of User's Manual.
Ensure all the pins of connectors are not bent or broken.
Ensure that the [AV MUTE] feature is not turned on.
[NEXT]
[Exit]
UpDown
Select
Menu
Exit



NOTE

- Please refer to the "Troubleshooting" section on pages 48-52 for more details.

- If input source is detected and help button is pressed, the following pages will appear to help diagnose any problems.



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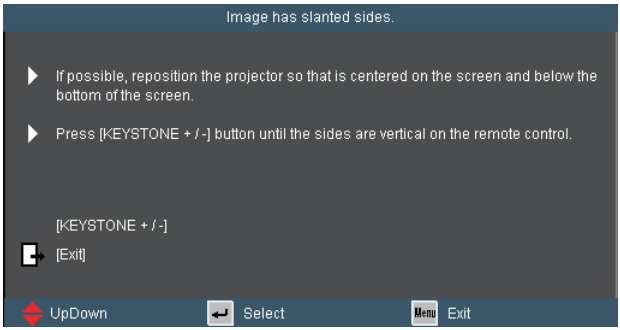


Image has slanted sides.
If possible, reposition the projector so that is centered on the screen and below the bottom of the screen.
Press [KEYSTONE + / -] button until the sides are vertical on the remote control.
[KEYSTONE + / -]
[Exit]
UpDown
Select
Menu
Exit

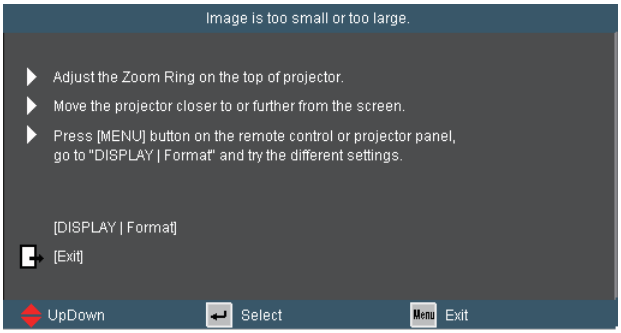
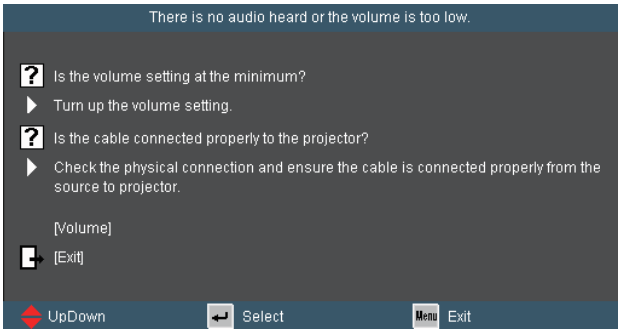
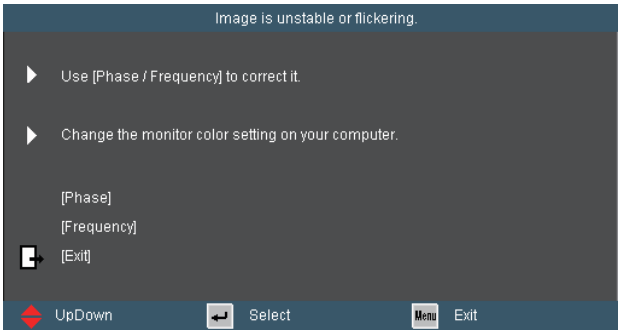


Image is too small or too large.
Adjust the Zoom Ring on the top of projector.
Move the projector closer to or further from the screen.
Press [MENU] button on the remote control or projector panel, go to "DISPLAY | Format" and try the different settings.
[DISPLAY | Format]
[Exit]
UpDown
Select
Menu
Exit


There is no audio heard or the volume is too low.
Is the volume setting at the minimum?
Turn up the volume setting.
Is the cable connected properly to the projector?
Check the physical connection and ensure the cable is connected properly from the source to projector.
[Volume]
[Exit]
UpDown
Select
Menu
Exit



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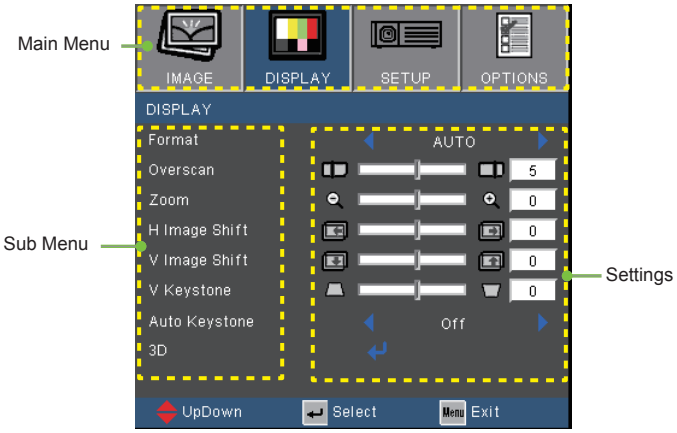
On-screen Display Menus

The Projector has multilingual On-screen Display menus that allow you to make image adjustments and change a variety of settings. The projector will automatically detect the source.

How to operate

1. To open the OSD menu, press “Menu” on the Remote Control or Projector Keypad.
2. When OSD is displayed, use ◀ ▶ keys to select any item in the main menu. While making a selection on a particular page, press ▼ or “Enter” key to enter sub menu.
3. Use ▲ ▼ keys to select the desired item and adjust the settings using ◀ ▶ key.
4. Select the next item to be adjusted in the sub menu and adjust as described above.
5. Press “Enter” to confirm, and the screen will return to the main menu.
6. To exit, press “MENU” again. The OSD menu will close and the projector will automatically save the new settings.



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Menu Tree

Main Menu	Sub Menu		Settings
Image	Display Mode		Presentation / Bright / Movie / sRGB / Blackboard / Classroom / User / 3D
	Brightness		
	Contrast		
	Sharpness		
	#1 Saturation		
	#1 Tint		
	Advanced	Degamma	Film / Video / Graphics / PC
		BrilliantColor™	0~10
		Color Temp.	Warm / Medium / Cold
		Color	Red Gain / Green Gain / Blue Gain / Red Bias / Green Bias / Blue Bias / Cyan / Magenta / Yellow / Reset / Exit
		Color Space	AUTO / RGB / YUV
		Input Source	VGA1 / VGA2 / Video / S-Video / HDMI
		Image AI	On / Off
		Exit	
Display	Format		#2 4:3 / 16:9-1 / 16:9-II / Native / AUTO
			#3 4:3 / 16:9 / 16:10 / LBX / Native / AUTO
	Overscan		0~10
	Zoom		80%~200%
	H Image Shift		-50 ~ +50
	V Image Shift		-50 ~ +50
	V Keystone		-40 ~ +40
	Auto Keystone		On / Off
	3D	3D	Off / On
		#4 3D Sync. Invert	On / Off
		Exit	
Setup	Language		**English / Deutsch / Français / Italiano / Español / Português / Svenska / Nederlands / Norsk/Dansk / Polski / Suomi / Русский / ελληνικά / Magyar / Čeština / فارسی / عربي /繁體中文 / 简体中文 / 日本語 /한국어 / ไทย / Türkçe / Việt**
	#3 Screen Type		16:10 / 16:9
	Projection		
	Menu Location		
	#5 Signal	Automatic	On / Off
		Phase (VGA)	0~31
		Frequency (VGA)	-5~5
		H. Position (VGA)	-5~5
		V. Position (VGA)	-5~5
		Exit	
	Security	Security	On / Off
		Security Timer	Month / Day / Hour
		Change Password	
		Exit	

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User Controls

Main Menu	Sub Menu		Settings
Setup	Projector ID		0~99
	Mute		On / Off
	[#6] Volume		0~10
	Audio Input		Default / Audio1(Phone jack) / Audio2 (RCA R/L) / MIC
	Advanced	Logo	Optoma / User
		Logo Capture	
		Closed Captioning	Off / CC1 / CC2
		Exit	
	RS232		RS232 / Network
	Network	Network State	
		DHCP	
		IP Address	
		Subnet mask	
		Gateway	
		DNS	
		Apply	Yes / No
		Exit	
Options	Source Lock		On / Off
	High Altitude		On / Off
	Information Hide		On / Off
	Keypad Lock		On / Off
	Background Color		Black / Red / Blue / Green / White
	Advanced	Direct Power On	On / Off
		Auto Power Off (min.)	0~180
		Sleep Timer (min.)	0~995
		Power Mode (Standby)	Eco. / Active
		Exit	
	Lamp Settings	Lamp Hours	
		Lamp Reminder	On / Off
		Brightness Mode	STD/Bright
		Lamp Reset	Yes / No
		Exit	
	Reset		

- Please note that the on-screen display (OSD) menus vary according to the signal type selected and the projector model you are using.
- (#1) “Saturation” and “Tint” are only supported in Video mode.
- (#2) For XGA model only.
- (#3) For WXGA model only. 16:9 or 16:10 depend on “Screen Type” setting.
- (#4) “3D Sync Invert” is only available when 3D is enabled.
- (#5) “Signal” is only supported in Analog VGA (RGB) signal.
- (#6) MIC volume can also be controlled by setup → volume in OSD

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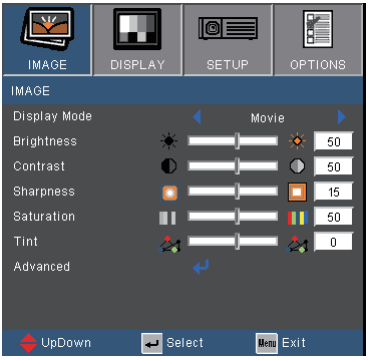
IMAGE



Display Mode

There are many factory presets optimized for various types of images.

- Presentation: Good color and brightness from PC input.
- Bright: Maximum brightness from PC input.
- Moive: For home theater.
- sRGB: Standardised accurate color.
- Blackboard: This mode should be selected to achieve optimum color settings when projecting onto a blackboard (green).
- Classroom: This mode is recommended for projecting in a classroom.
- User: User's settings.
- 3D: Any further adjustments by the user in 3D will be saved in this mode for further use.

Brightness

Adjust the brightness of the image.

- Press the ◀ to darken image.
- Press the ▶ to lighten the image.

Contrast

The contrast controls the degree of difference between the lightest and darkest parts of the picture.

- Press the ◀ to decrease the contrast.
- Press the ▶ to increase the contrast.

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Sharpness

Adjust the sharpness of the image.

- Press the ◀ to decrease the sharpness.
- Press the ▶ to increase the sharpness.

Saturation

Adjust a video image from black and white to fully saturated color.

- Press the ◀ to decrease the amount of saturation in the image.
- Press the ▶ to increase the amount of saturation in the image.

Tint

Adjust the color balance of red and green.

- Press the ◀ to increase the amount of green in the image.
- Press the ▶ to increase the amount of red in the image.

NOTE

❖ "Saturation" and "Tint" functions are only supported under Video mode.

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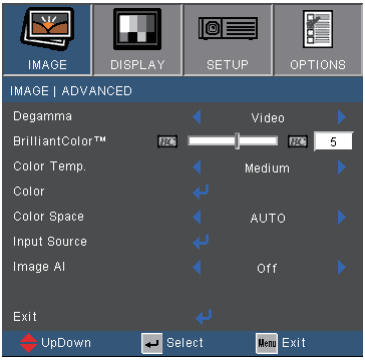
IMAGE | Advanced



Degamma

This allows you to choose a degamma table that has been fine-tuned to bring out the best image quality for the input.

- Film: for home theater.
- Video: for video or TV source.
- Graphics: for image source.
- PC: for PC or computer source.

BrilliantColor™

This adjustable item utilizes a new color-processing algorithm and system level enhancements to enable higher brightness while providing true, more vibrant colors in picture. The range is from “0” to “10”. If you prefer a stronger enhanced image, adjust toward the maximum setting. For a smoother, more natural image, adjust toward the minimum setting.

Color Temp

If set to cold temperature, the image looks more blue. (cold image)
If set to warm temperature, the image looks more red.
(warm image)

Color

Press ↵ into the next menu as below and then use ▲ or ▼ to select item.

- Red/Green/Blue/Cyan/Magenta/Yellow: Use ◀ or ▶ to select Red, Green, Blue, Cyan, Magenta and Yellow Colors.
- Reset: Choose “Yes” to return the factory default settings for color adjustments.

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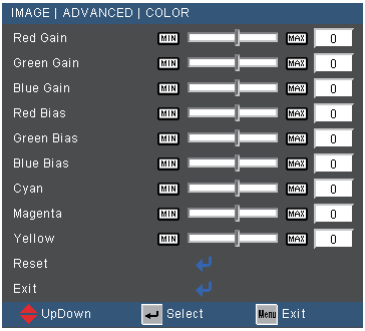

Color Space

Select an appropriate color matrix type from AUTO, RGB or YUV.

Input Source

Use this option to enable / disable input sources. Press ↵ to enter the sub menu and select which sources you require. Press “Enter” to finalize the selection. The projector will not search for inputs that are not selected.

Image AI

Image AI improves the contrast of the picture by optimizing the brightness of the lamp according to the picture content.

- On: The dynamic image performance manager is active in making sure your greatest pleasure from seeing a movie dynamically with the most dark details revealed, vivid and bright image performed all the way.
- Off: The dynamic image performance manager is on standby.

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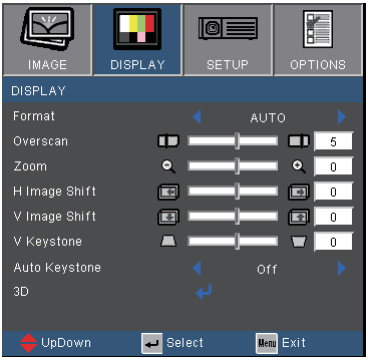
DISPLAY



Format

Use this function to choose your desired aspect ratio.

XGA

- 4:3: This format is for 4×3 input sources.
- 16:9-I: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (576i/p)
- 16:9-II: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV. (480i/p)
- Native: This format displays the original image without any scaling.
- AUTO: Automatically selects the appropriate display format. When input is 4:3, the image is displayed as 4:3. When input is 16:9 above, the image is displayed as 16:9- I

Aspect ratio (source detected)	Resize image
	XGA model
4:3	1024 x 768 center
16:9-I	1024 x 576 center
16:9-II	854 x 480 center
Native	Resize image of native change to above description not pixels resolution.

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WXGA

- 4:3: This format is for 4×3 input sources.
- 16:9: This format is for 16×9 input sources, like HDTV and DVD enhanced for Wide screen TV.
- 16:10: This format is for 16×10 input sources, like widescreen laptops.
- LBX: This format is for non-16x9, letterbox source and for users who use external 16x9 lens to display 2.35:1 aspect ratio using full resolution.
- Native: This format displays the original image without any scaling.
- AUTO: Automatically selects the appropriate display format.

NOTE

- 16:9 or 16:10 depend on “Screen Type” setting.

16:10 Screen	480i/p	576i/p	1080i/p	720p	PC
4:3	1066 x 800 center				
16:10	1280 x 800 center				
LBX	1280 x 960 center, then get the central 1280 x 800 image to display				
Native	1:1 mapping centered.		1:1 mapping (960 x 540) display 1280 x 720	1280 x 720 center	1:1 mapping centered.

16:9 Screen	480i/p	576i/p	1080i/p	720p	PC
4:3	960 x 720 center				
16:9	1280 x 720 center				
LBX	1280 x 960 center, then get the central 1280 x 720 image to display				
Native	1:1 mapping centered.		1:1 mapping (960 x 540) display 1280 x 720	1280 x 720 center	1:1 mapping centered.

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- Each I/O has different setting of “Overscan”.
- “Overscan” and “Zoom” can’t work at same time.

Overscan

Overscan function removes the noise in a video image. Overscan the image to remove video encoding noise on the edge of video source.

Zoom

- Press the ◀ to reduce the size of an image.
- Press the ▶ to magnify an image on the projection screen.

H Image Shift

Shift the projected image position horizontally.

V Image Shift

Shift the projected image position vertically.

V Keystone

Press the ◀ or ▶ to adjust image distortion vertically. If the image looks trapezoidal, this option can help make the image rectangular.

Auto Keystone

Automatically adjusts vertical image distortion.

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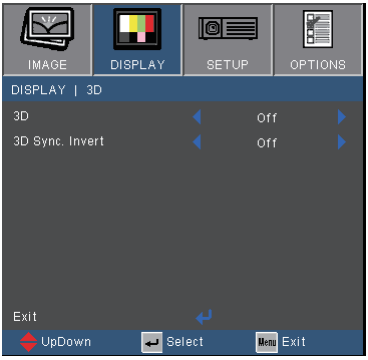
DISPLAY | 3D



3D

Choose the “On” to turn this item on first if for 3D images.

3D Sync. Invert

- Press the “On” to invert left and right frame contents.
- Press the “Off” for default frame contents.

- “3D Sync Invert” only available when 3D is enabled.
- Compatible 3D source, 3D content and active shutter glasses are required for 3D viewing.

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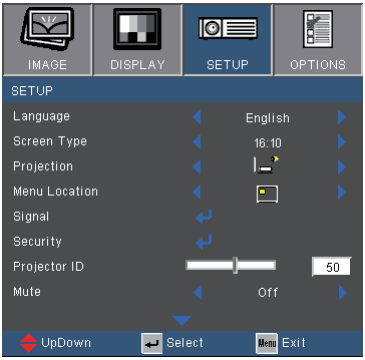
SETUP



Language

Choose the multilingual OSD menu. Press ◀ or ▶ into the sub menu and then use the ▲ or ▼ key to select your preferred language. Press “Enter” to finalize the selection.

NOTE

- Rear-Desktop and Rear-Ceiling are to be used with a translucent screen.

Projection

- Front-Desktop

  This is the default selection. The image is projected straight on the screen.

- Rear-Desktop

  When selected, the image will appear reversed.

- Front-Ceiling

  When selected, the image will turn upside down.

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- Rear-Ceiling

  When selected, the image will appear reversed in upside down position.

❖ “Screen Type” is for WXGA only.

Menu Location

Choose the menu location on the display screen.

Screen Type

Choose the screen type from16:10 or 16:9.

Projector ID

ID definition can be set up by menu (range 0~99), and allow user control an individual projector by RS232. Refer to page 58~61 for the complete list of RS232 commands.

Mute

- Choose the “On” to turn mute on.
- Choose the “Off” to turn mute off.

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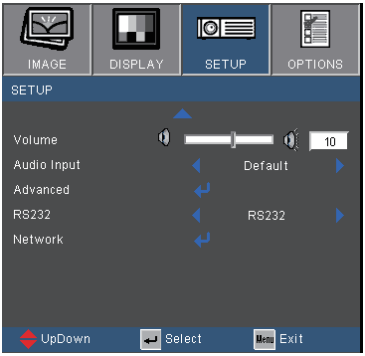
SETUP



Volume

- Press the ◀ to decrease the volume.
- Press the ▶ to increase the volume.

NOTE

- Volume adjustment can also control MIC volume.

Audio Input

The default audio settings are on the back panel of the projector. Use this option to reassign any of the Audio Inputs (1 or 2) to the current image source. Each Audio input can be assigned to more than one video source.

- Audio 1: VGA 1 and VGA 2.
- Audio 2: S-Video/Video.
- MIC: (No default video source)

RS232

- RS232: Allow RS232 control of an individual projector. (Default setting)
- Network: Allow projector control via web browser (Internet Explorer) using the network.

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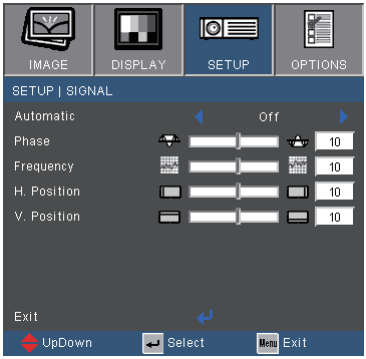
SETUP | Signal (RGB)



NOTE

- "Signal" is only supported in Analog VGA (RGB) signal.

Automatic

Automatically selects the singal. If you use this function, the Phase, frequency items are grayed out, and if Signal is not automatic, the phase, frequency items will appear for user to manually tune and saved in settings after that for next time projector turns off and on again.

Phase

Synchronize the signal timing of the display with the graphic card. If the image appears to be unstable or flickers, use this function to correct it.

Frequency

Change the display data frequency to match the frequency of your computer's graphic card. Use this function only if the image appears to flicker vertically.

H. Position

- Press the ◀ to move the image left.
- Press the ▶ to move the image right.

V. Position

- Press the ◀ to move the image down.
- Press the ▶ to move the image up.

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SETUP | Security

Security

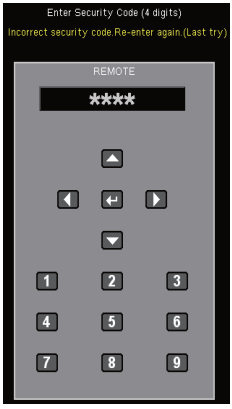
- On: Choose “On” to use security verification when the turning on the projector.
- Off: Choose “Off” to be able to switch on the projector without password verification.

Security Timer

Use this function to set the how long (Month/Day/Hour) the projector can be used. Once this time has elapsed you will be requested to enter your password again.

❖ Password default value is “1234” (first time).

Change Password



- First time:
  1. Press “↵” to set the password.
  2. The password has to be 4 digits.
  3. Use number button on the remote to enter your new password and then press “↵” key to confirm your password.
- Change Password:
  1. Press “↵” to input old password.
  2. Use number button to enter current password and then press “↵” to confirm.
  3. Enter new password (4 digits in length) using the number buttons on the remote, then press “↵” to confirm.
  4. Enter new password again and press “↵” to confirm.

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- If the incorrect password is entered 3 times, the projector will automatically shut down.
- If you have forgotten your password, please contact your local office for support.

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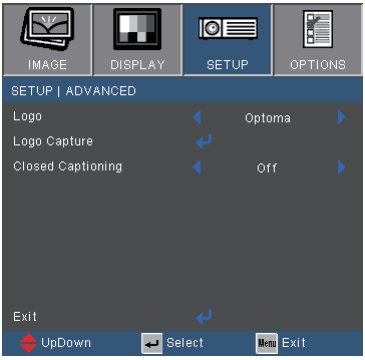
SETUP | Advanced



Logo

Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- Optoma: The default startup screen.
- User: Use stored picture from “Logo Capture” function.

Logo Capture

Press ↵ to capture an image of the picture currently displayed on screen.

❖ For successful logo capture, please ensure that the on-screen image does not exceed the projector’s native resolution. (XGA:1024x768 or WXGA:1280x800).

Closed Captioning

Use this function to set the desired startup screen. If changes are made they will take effect the next time the projector is powered on.

- Off: select “off” to turn off the closed captioning feature.
- CC1:CC1 language: American English.
- CC2:CC2 language (depending on the TV channel of the user):Spanish, French, Portuguese, German, Danish.

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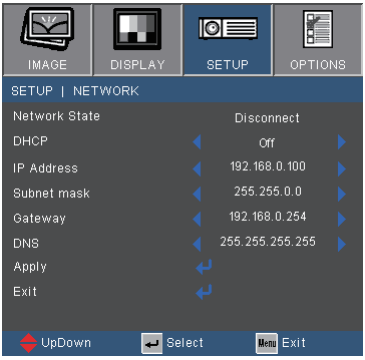
SETUP | Network



Network State

Display the network connection status.

DHCP

Use this function to select your desired startup screen. If you change the setting from one to another, when you exit the OSD menu, the new setting will take effect on next open.

- On: Assign an IP address to the projector from an external DHCP server automatically.
- Off: Assign an IP address manually.

IP Address

Select an IP address.

Subnet Mask

Select subnet mask number.

Gateway

Select the default gateway of the network connected to the projector.

DNS

Select DNS number.

Apply

Press "↵" and then choose "Yes" to apply the selection.

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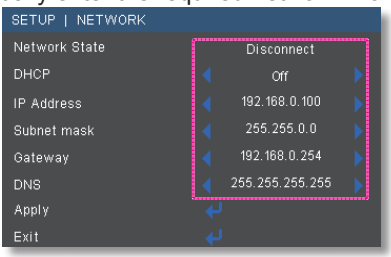
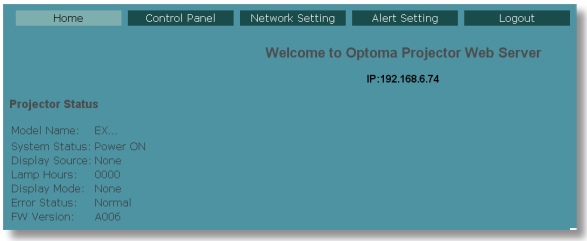
How to use web browser to control your projector

1. Turn on DHCP to allow the DHCP server to automatically assign an IP, or manually enter the required network information.



2. Then choose apply and press "↵" button to complete the configuration process.
3. Open your web browser and type in from the OSD LAN screen then the web page will display as below:



NOTE

- When you used the projector IP address, you will can not link to your service server.

4. Open "Control Panel" to control your projector.

When making a direct connection from your computer to the projector

Step 1: Find an IP Address (192.168.6.74) from LAN function of projector.

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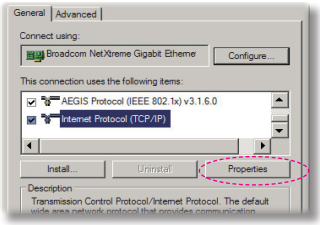
Step 2: Select apply and press “Enter” button to submit function or press “menu” key to exit.

Step 3: To open Network Connections, click **Start**, click **Control Panel**, click **Network and Internet Connections**, and then click **Network Connections**. Click the connection you want to configure, and then, under **Network Tasks** , click **Change settings of this connection**.

Step 4: On the **General** tab, under **This connection uses the following items**, click **Internet Protocol (TCP/IP)**, and then click “Properties.”

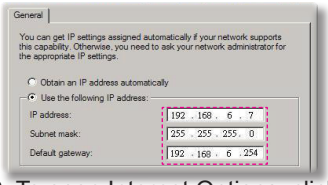


Step 5: Click **Use the following IP address**, and type in as below:

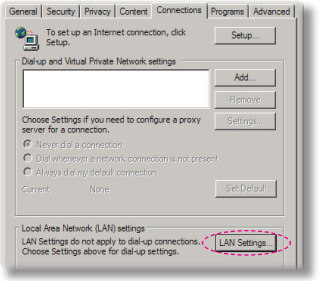
1) IP address: 192.168.6.XXX

2) Subnet mask: 255.255.0.0

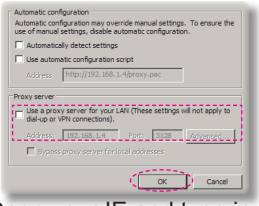
3) Default gateway:192.168.6.254


General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 192 . 168 . 6 . 7
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 6 . 254

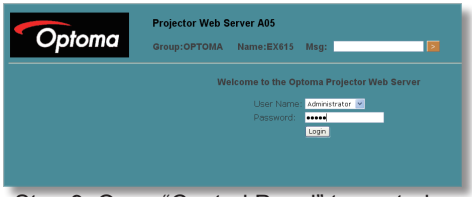
Step 6: To open Internet Options, click IE web browser, click Internet Options, click the **Connections tab** and click “LAN Settings...”



Step 7: The **Local Area Network (LAN) Setting** dialog box appears**,** In the **Proxy Server area**, cancel the **Use a proxy server for your LAN check box**., then click “OK” button twice.


Automatic configuration
Automatic configuration may override manual settings. To ensure the use of manual settings, disable automatic configuration.
Automatically detect settings
Use automatic configuration script
Address
Proxy server
Use a proxy server for your LAN (These settings will not apply to dial-up or VPN connections).
Address:
Port:
Advanced...
Bypass proxy server for local addresses
OK
Cancel

Step 8: Open your IE and type in the IP address of 192.168.6.74 in the URL then press “Enter” key. The web page will display as below:



Step 9: Open “Control Panel” to control your projector.

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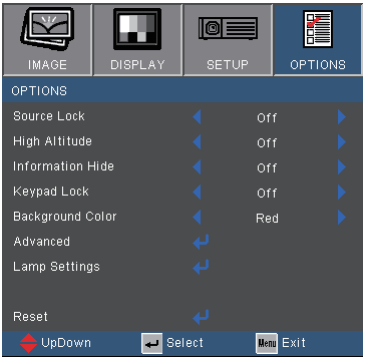
OPTIONS



Source Lock

- On: The projector will only search current input connection.
- Off: The projector will search for other signals if the current input signal is lost.

High Altitude

When “On” is selected, the fans will spin faster. This feature is useful in high altitude areas where the air is thin.

Information Hide

- On: Choose “On” to hide the info message.
- Off: Choose “Off” to show the “searching” message.

Keypad Lock

When the keypad lock function is “On”, the control panel will be locked however, the projector can be operated by the remote control. By selecting “Off”, you will be able to reuse the control panel.

Background Color

Use this feature to display a “Black”, “Red”, “Blue”, “Green” or “White”, screen when no signal is available.

Reset

Choose “Yes” to return the display parameters on all menus to the factory default settings.

NOTE

- With dust filter installed, High Altitude mode must be turned on. Dust filter is Optional and may not be required in some regions.

NOTE

- To turn off the key-pad lock, press and hold “Enter” key on top of the projector for 5 seconds.

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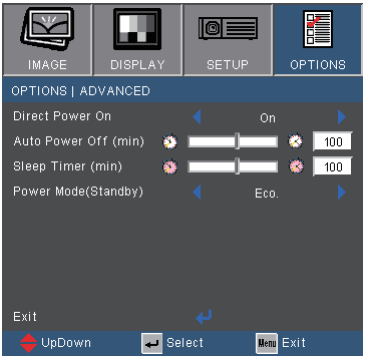
OPTIONS | Advanced



Direct Power On

Choose “On” to activate Direct Power mode. The projector will automatically power on when AC power is supplied, without pressing the “⏻” key on the projector control panel or on the remote control.

Auto Power Off (min)

Sets the countdown timer interval. The countdown timer will start, when there is no signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Sleep Timer (min)

Sets the countdown timer interval. The countdown timer will start, with or without a signal being sent to the projector. The projector will automatically power off when the countdown has finished (in minutes).

Power Mode (Standby)

- Eco.: Choose “Eco.” to save power dissipation further < 1W.
- Active: Choose “Active” to return to normal standby and the VGA out port will be enabled.

NOTE

- Eco (<1W) mode will disable the VGA-out and RJ45 function when the projector is in standby.

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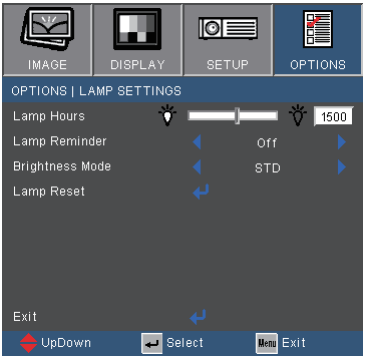
OPTIONS | Lamp Settings



Lamp Hours

Display the projection time.

Lamp Reminder

Choose this function to show or to hide the warning message when the changing lamp message is displayed.
The message will appear 30 hours before suggested replacement of lamp.

Brightness Mode

- STD: Choose “STD” to dim the projector lamp which will lower power consumption and extend the lamp life.
- BRIGHT: Choose “BRIGHT” to increase the brightness.

Lamp Reset

Reset the lamp hour counter after replacing the lamp.

NOTE

- When ambient temperature is over 35°C in operating, the projector will switch to STD automatically.

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Troubleshooting

If you experience a problem with your projector, please refer to the following information. If a problem persists, please contact your local reseller or service center.

? No image appears on-screen

- Ensure all the cables and power connections are correctly and securely connected as described in the “Installation” section.
- Ensure all the pins of connectors are not bent or broken.
- Check if the projection lamp has been securely installed. Please refer to the “Replacing the lamp” section.
- Make sure you have removed the lens cap and the projector is switched on.
- Ensure that the “AV mute” feature is not turned on.

? Partial, scrolling or incorrectly displayed image

- Press “Re-SYNC” on the remote.
- If you are using a PC:

  For Windows 95, 98, 2000, XP, Windows 7:

  1. Open the “My Computer” icon, the “Control Panel” folder, and then double click on the “Display” icon.
  2. Select the “Settings” tab.
  3. Verify that your display resolution setting is lower than or equal to UXGA (1600 × 1200).
  4. Click on the “Advanced Properties” button.

  If the projector is still not projecting the whole image, you will also need to change the monitor display you are using. Refer to the following steps.

  5. Verify the resolution setting is lower than or equal to UXGA (1600 × 1200).
  6. Select the “Change” button under the “Monitor” tab.

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7. Click on “Show all devices”. Next, select “Standard monitor types” under the SP box; choose the resolution mode you need under the “Models” box.
8. Verify that the resolution setting of the monitor display is lower than or equal to UXGA (1600 × 1200).

- If you are using a Notebook:
  1. First, follow the steps above to adjust resolution of the computer.
  2. Press the appropriate keys listed below for your notebook manufacturer to send signal out from notebook to projector. Example: [Fn]+[F4]

Acer ⇨	[Fn]+[F5]	IBM/Lenovo ⇨	[Fn]+[F7]
Asus ⇨	[Fn]+[F8]	HP/Compaq ⇨	[Fn]+[F4]
Dell ⇨	[Fn]+[F8]	NEC ⇨	[Fn]+[F3]
Gateway ⇨	[Fn]+[F4]	Toshiba ⇨	[Fn]+[F5]

Mac Apple:
System Preference ⇨ Display ⇨ Arrangement ⇨ Mirror display

- If you experience difficulty changing resolutions or your monitor freezes, restart all equipment including the projector.

? The screen of the Notebook or PowerBook computer is not displaying your presentation

- If you are using a Notebook PC
  Some Notebook PCs may deactivate their own screens when a second display device is in use. Each has a different way to be reactivated. Refer to your computer’s manual for detailed information.

? Image is unstable or flickering

- Use “Phase” to correct it. See page 38 for more information.
- Change the monitor color setting on your computer.

? Image has vertical flickering bar

- Use “Frequency” to make an adjustment. See page 38 for more information.
- Check and re-configure the display mode of your graphic card to make it compatible with the projector.

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Image is out of focus

- Make sure the lens cap is removed.
- Adjust the Focus Ring on the projector lens.
- Make sure the projection screen is between the required distance. See page 16.

The image is stretched when displaying 16:9 DVD title

- When you play anamorphic DVD or 16:9 DVD, the projector will show the best image when the projector display mode is set to 16:9 in the OSD.
- If you play 4:3 format DVD titles, please change the format to 4:3 in the projector OSD.
- If the image is still stretched, you will also need to adjust the aspect ratio by referring to the following:
- Please setup the display format as 16:9 (wide) aspect ratio type on your DVD player.

Image is too small or too large

- Move the projector closer to or further from the screen.
- Press “Menu” button on the remote control or projector panel, go to “DISPLAY → Format” and try the different settings.

Image has slanted sides

- If possible, reposition the projector so that it is horizontally centered on the screen and below the bottom of the screen.
- Press “Keystone +/-” button on the remote control or press “▽ / △” on the projector panel, until the sides are vertical.

Image is reversed

- Select “SETUP → Projection” from the OSD and adjust the projection direction.

NOTE

- Use of Keystone is not recommended.

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The projector stops responding to all controls

- If possible, turn off the projector, then unplug the power cord and wait at least 60 seconds before reconnecting power.
- Check that “Keypad Lock” is not activated by trying to control the projector with the remote control.

Lamp burns out or makes a popping sound

- When the lamp reaches its end of life, it will burn out and may make a loud popping sound. If this happens, the projector will not turn on until the lamp module has been replaced. To replace the lamp, follow the procedures in the “Replacing the Lamp” section on pages 53-54.

LED lighting message

Message	POWER/STAND-BY LED	Temp-LED	Lamp-LED
	(Green/Amber)	(Red)	(Red)
Standby State (Input power cord)	Amber	○	○
Power on (Warming)	Flashing Green	○	○
Lamp lighting	Green	○	○
Power off (Cooling)	Flashing Green	○	☒
Error (Over Temp.)	Flashing Amber	☼	○
Error (Fan fail)	Flashing Amber	Flashing	○
Error (Lamp fail)	Flashing Amber	○	☼

＊ POWER/STANDBY LED be ON when OSD appears, be OFF when OSD disappears.

NOTE

Steady light ⇨ ☼

No light ⇨ ○

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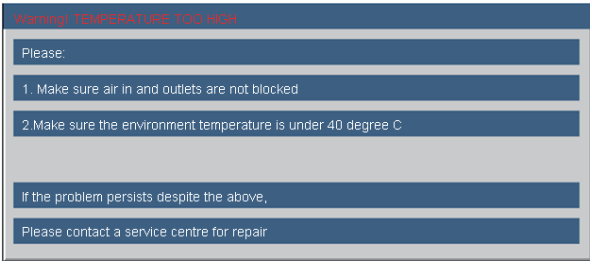
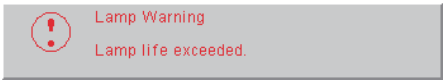
On Screen Messages

- Temperature warning:


Warning! TEMPERATURE TOO HIGH
Please:
1. Make sure air in and outlets are not blocked
2.Make sure the environment temperature is under 40 degree C
If the problem persists despite the above,
Please contact a service centre for repair

- Fan failed:

- Lamp warning:



- Out of display range:

If the remote control does not work

- Check the operating angle of the remote control is within ±15° both horizontally and vertically of one of the IR receivers on the projector.
- Make sure there are not any obstructions between the remote control and the projector. Move to within 7 m (±0°) of the projector.
- Make sure the batteries are inserted correctly.
- Replace batteries if they are exhausted.

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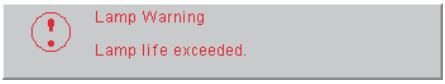
Replacing the lamp

The projector automatically detects the lamp life. When the lamp life is nearing the end of use, you will receive a warning message.



When you see this message, please contact your local reseller or service center to change the lamp as soon as possible. Make sure the projector has been cooled down for at least 30 minutes before changing the lamp.

CAUTION!
HIGH PRESSURE LAMP MAY EXPLODE IF IMPROPERLY HANDED. REFER TO LAMP REPLACEMENT INSTRUCTIONS.
ATTENTION:
Les lampes à haute pression peuvent exploser si elles sont mal utilisées.
Confier l'entretien à une personne qualifiée.

⚠ Warning: If ceiling mounted, please use caution when opening the lamp access panel. It is recommended to wear safety glasses if changing the bulb when ceiling mounted. “Caution must be used to prevent any loose parts from falling out of projector.”

⚠ Warning: Lamp compartment may be hot! Allow it to cool down before changing the lamp!

⚠ Warning: To reduce the risk of personal injury, do not drop the lamp module or touch the lamp bulb. The bulb may shatter and cause injury if it is dropped.

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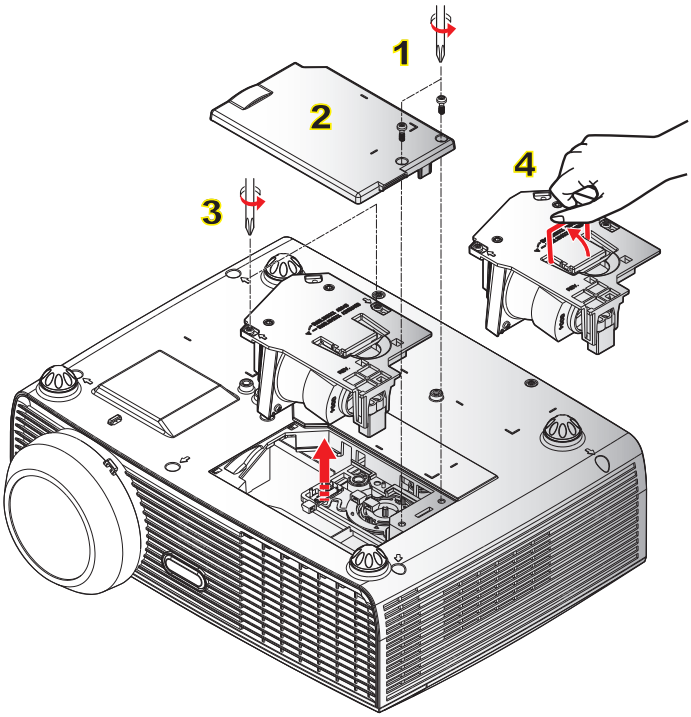
- The screws on the lamp cover and the lamp cannot be removed.
- The projector cannot be turned on if the lamp cover has not been placed back on the projector.
- Do not touch the glass area of the lamp. Hand oil can cause the lamp to shatter. Use a dry cloth to clean the lamp module if it was accidentally touched.



Lamp Replacement Procedure:

1. Switch off the power to the projector by pressing the "⏻" button.
2. Allow the projector to cool down for at least 30 minutes.
3. Disconnect the power cord.
4. Unscrew the two screws on the cover. 1
5. Lift up and remove the cover. 2
6. Unscrew the two screws on the lamp module. 3
7. Lift up the lamp handle and remove the lamp module slowly and carefully. 4

To replace the lamp module, reverse the previous steps.

8. Turn on the projector and use "Lamp Reset" after the lamp module is replaced.

Lamp Reset: (i) Press "Menu" → (ii) Select "OPTIONS" → (iii) Select "Lamp Settings" → (iv) Select "Lamp Reset" → (v) Select "Yes".

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Compatibility Modes

Computer Compatibility

Mode	Resolution	V-Sync (Hz)		H-Sync (KHz)	
		Anglog	Digital	Anglog	Digital
VGA	640 × 350	70	70	31.50	31.50
VGA	640 × 350	85	85	37.90	37.90
VGA	640 × 400	85	85	37.90	37.90
VGA	640 × 480	60	60	31.50	31.50
VGA	640 × 480	67	67	-	-
VGA	640 × 480	72	72	37.90	37.90
VGA	640 × 480	75	75	37.50	37.50
VGA	720 × 400	70	70	31.50	31.50
VGA	720 × 400	85	85	37.90	37.90
SVGA	800 × 600	56	56	35.20	35.20
SVGA	800 × 600	60	60	37.90	37.90
SVGA	800 × 600	72	72	48.10	48.10
SVGA	800 × 600	75	75	46.90	46.90
SVGA	800 × 600	120	120	-	-
	832 × 624	75	75	-	-
XGA	1024 × 768	60	60	48.40	48.40
XGA	1024 × 768	70	70	56.50	56.50
XGA	1024 × 768	75	75	60.00	60.00
XGA	1024 × 768	120	120	-	-
	1152 × 870	75	75	-	-
WXGA	1280 × 800	60	60	49.68	49.64
WSXGA+(*)	1680 × 1050	60	60	65.00	65.00
SXGA	1280 × 1024	60	60	63.98	63.98
UXGA	1600 × 1200	60	60	75.00	75.00
HD	1280 × 720	60	60	45.00	45.00
HD	1280 × 720	120	120	-	-
HD	1920 × 1080	30	30	33.80	33.80

NOTE

- For widescreen resolution (WXGA), the compatibility support is dependent on Notebook/PC models.
- 120Hz input signals may be dependent on graphics cards support.
- Please note that using resolutions other than native 1024 x 768 (XGA model), 1280 x 800 (WXGA model) may result in some loss of image clarity.
- For WXGA model only.

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Computer Compatibility

Mode	Resolution	V-Sync (Hz)	H-Sync (KHz)
MAC LC 13”	640 × 480	66.66	34.98
MAC II 13”	640 × 480	66.68	35.00
MAC 16”	832 × 624	74.55	49.73
MAC 19”	1024 × 768	75	60.24
MAC	1152 × 870	75.06	68.68
MAC G4	640 × 480	60	31.35
i MAC DV	1024 × 768	75	60.00
i MAC DV	1152 × 870	75	68.49

Video Compatibility

NTSC	M (3.58MHz), 4.43 MHz
PAL	B, D, G, H, I, M, N
SECAM	B, D, G, K, K1, L
SDTV	480i/p, 576i/p,
HDTV	720p@50Hz/60Hz, 1080i@50Hz/60Hz, 1080p@24Hz/50Hz/60Hz

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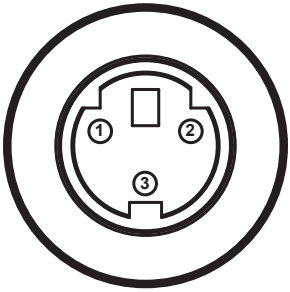
RS232 Commands and Protocol Function List

RS232 Pin Assignments



❖ RS232 shell is grounded.

Pin no.	Spec. (from projector side)
1	TXD
2	RXD
3	GND

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RS232 Protocol Function List

1. There is a <CR> after all ASCII commands.
2. 0D is the HEX code for <CR> in ASCII code.

Baud Rate : 9600
Data Bits: 8
Parity: None
Stop Bits: 1
Flow Control : None
UART16550 FIFO: Disable
Projector Return (Pass): P
Projector Return (Fail): F

XX=00-99, projector's ID,
XX=00 is for all projectors

SEND to projector

232 ASCII Code	HEX Code	Function		Description
~XX00 1	7E 30 30 30 30 20 31 0D	Power ON		
~XX00 0	7E 30 30 30 30 20 30 0D	Power OFF		
~XX00 1 ~nnnn	7E 30 30 30 30 20 31 20 a 0D	Power ON with Password		~nnnn = ~0000 (a=7E 30 30 30 30) - ~9999(a=7E 39 39 39 39)
~XX01 1	7E 30 30 30 31 20 31 0D	Resync		
~XX02 1	7E 30 30 30 32 20 31 0D	AV Mute	On	
~XX02 0	7E 30 30 30 32 20 30 0D		Off	
~XX03 1	7E 30 30 30 33 20 31 0D	Mute	On	
~XX03 0	7E 30 30 30 33 20 30 0D		Off	
~XX04 1	7E 30 30 30 34 20 31 0D	Freeze		
~XX04 0	7E 30 30 30 34 20 30 0D	Unfreeze		
~XX05 1	7E 30 30 30 35 20 31 0D	Zoom Plus		
~XX06 1	7E 30 30 30 36 20 31 0D	Zoom Minus		
~XX07 1	7E 30 30 30 37 20 31 0D	Up (Pan under zoom)		
~XX08 1	7E 30 30 30 38 20 31 0D	Down (Pan under zoom)		
~XX09 1	7E 30 30 30 39 20 31 0D	Left (Pan under zoom)		
~XX10 1	7E 30 30 31 30 20 31 0D	Right (Pan under zoom)		
~XX12 1	7E 30 30 31 32 20 31 0D	Direct Source Command	HDMI	
~XX12 5	7E 30 30 31 32 20 35 0D		VGA 1	
~XX12 6	7E 30 30 31 32 20 36 0D		VGA 2	
~XX12 9	7E 30 30 31 32 20 39 0D		S-Video	
~XX12 10	7E 30 30 31 32 20 31 30 0D		Video	
~XX20 1	7E 30 30 32 30 20 31 0D	Display Mode	Presentation	
~XX20 2	7E 30 30 32 30 20 32 0D		Bright	
~XX20 3	7E 30 30 32 30 20 33 0D		Movie	
~XX20 4	7E 30 30 32 30 20 34 0D		sRGB	
~XX20 5	7E 30 30 32 30 20 35 0D		User	
~XX20 7	7E 30 30 32 30 20 37 0D		Blackboard	
~XX20 8	7E 30 30 32 30 20 38 0D		Classroom	
~XX20 9	7E 30 30 32 30 20 39 0D		3D	
~XX21 n	7E 30 30 32 31 20 a 0D	Brightness		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX22 n	7E 30 30 32 32 20 a 0D	Contrast		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX23 n	7E 30 30 32 33 20 a 0D	Sharpness		n = 0 (a=30) ~ 31 (a=33 31)
~XX24 n	7E 30 30 32 34 20 a 0D	Color	Red Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX25 n	7E 30 30 32 35 20 a 0D		Green Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX26 n	7E 30 30 32 36 20 a 0D		Blue Gain	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX27 n	7E 30 30 32 37 20 a 0D		Red Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX28 n	7E 30 30 32 38 20 a 0D		Green Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX29 n	7E 30 30 32 39 20 a 0D		Blue Bias	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX30 n	7E 30 30 33 30 20 a 0D		Cyan	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX31 n	7E 30 30 33 31 20 a 0D		Yellow	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX32 n	7E 30 30 33 32 20 a 0D		Magenta	n = -50 (a=2D 35 30) ~ 50 (a=35 30)
~XX33 1	7E 30 30 33 33 20 31 0D		Reset	
~XX34 n	7E 30 30 33 34 20 a 0D	BrilliantColor™		n = 0 (a=30) ~ 10 (a=31 30)
~XX35 1	7E 30 30 33 35 20 31 0D	Degamma	Film	
~XX35 2	7E 30 30 33 35 20 32 0D		Video	
~XX35 3	7E 30 30 33 35 20 33 0D		Graphics	
~XX35 4	7E 30 30 33 35 20 34 0D		PC	
~XX36 1	7E 30 30 33 36 20 31 0D	Color Temp.	Warm	
~XX36 2	7E 30 30 33 36 20 32 0D		Medium	
~XX36 3	7E 30 30 33 36 20 33 0D		Cold	
~XX37 1	7E 30 30 33 37 20 31 0D	Color Space	Auto	
~XX37 2	7E 30 30 33 37 20 32 0D		RGB	
~XX37 3	7E 30 30 33 37 20 33 0D		YUV	

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~XX39 5	7E 30 30 33 39 20 35 0D	Input Source	VGA1	
~XX39 6	7E 30 30 33 39 20 35 0D		VGA2	
~XX39 9	7E 30 30 33 39 20 39 0D		S-Video	
~XX39 10	7E 30 30 33 39 20 31 30 0D		Video	
~XX39 1	7E 30 30 33 39 20 31 0D		HDMI	
~XX195 1	7E 30 30 37 31 20 31 0D	Image AI	On	
~XX195 0	7E 30 30 37 31 20 30 0D		Off	
~XX44 n	7E 30 30 34 34 20 a 0D	Tint		n = 0 (a=30) ~ 100 (a=31 30 30)
~XX45 n	7E 30 30 34 35 20 a 0D	Color (Saturation)		n = 0 (a=30) ~ 100 (a=31 30 30)
(WXGA only)				
~XX60 1	7E 30 30 36 30 20 31 0D	Format	4:3	
~XX60 2	7E 30 30 36 30 20 32 0D		16:9/16:10	
~XX60 5	7E 30 30 36 30 20 35 0D		LBX	
~XX60 6	7E 30 30 36 30 20 36 0D		Native	
~XX60 7	7E 30 30 36 30 20 37 0D		AUTO	
(XGA only)				
~XX60 1	7E 30 30 36 30 20 31 0D	Format	4:3	
~XX60 2	7E 30 30 36 30 20 32 0D		16:9-I	
~XX60 3	7E 30 30 36 30 20 35 0D		16:9-II	
~XX60 6	7E 30 30 36 30 20 36 0D		Native	
~XX60 7	7E 30 30 36 30 20 37 0D		AUTO	
~XX61 n	7E 30 30 36 31 20 a 0D	Overscan		n = 0 (a=30) ~ 10(a=31 30)
~XX62 n	7E 30 30 36 32 20 a 0D	Zoom		n = -5 (a=2D 35) ~ 25 (a=32 35)
~XX63 n	7E 30 30 36 33 20 a 0D	H Image Shift		n = -50 (a=2D 35 30) ~ +50 (a=35 30)
~XX64 n	7E 30 30 36 34 20 a 0D	V Image Shift		n = -50 (a=2D 35 30) ~ +50 (a=35 30)
~XX66 n	7E 30 30 36 36 20 a 0D	V Keystone		n = -40 (a=2D 34 30) ~ 40 (a=34 30)
~XX69 1	7E 30 30 36 39 20 31 0D	Auto Keystone	On	
~XX69 0	7E 30 30 36 39 20 30 0D	Auto Keystone	Off	
~XX230 1	7E 30 30 32 33 30 20 31 0D	3D Mode	On	
~XX230 0	7E 30 30 32 33 30 20 30 0D	3D Mode	Off	
~XX231 1	7E 30 30 32 33 31 20 31 0D	3D Sync Invert	On	
~XX231 0	7E 30 30 32 33 31 20 30 0D	3D Sync Invert	Off	
~XX70 1	7E 30 30 37 30 20 31 0D	Language	English	
~XX70 2	7E 30 30 37 30 20 32 0D		German	
~XX70 3	7E 30 30 37 30 20 33 0D		French	
~XX70 4	7E 30 30 37 30 20 34 0D		Italian	
~XX70 5	7E 30 30 37 30 20 35 0D		Spanish	
~XX70 6	7E 30 30 37 30 20 36 0D		Portuguese	
~XX70 7	7E 30 30 37 30 20 37 0D		Polish	
~XX70 8	7E 30 30 37 30 20 38 0D		Dutch	
~XX70 9	7E 30 30 37 30 20 39 0D		Swedish	
~XX70 10	7E 30 30 37 30 20 31 30 0D		Norwegian/Danish	
~XX70 11	7E 30 30 37 30 20 31 31 0D		Finnish	
~XX70 12	7E 30 30 37 30 20 31 32 0D		Greek	
~XX70 13	7E 30 30 37 30 20 31 33 0D		Traditional Chinese	
~XX70 14	7E 30 30 37 30 20 31 34 0D		Simplified Chinese	
~XX70 15	7E 30 30 37 30 20 31 35 0D		Japanese	
~XX70 16	7E 30 30 37 30 20 31 36 0D		Korean	
~XX70 17	7E 30 30 37 30 20 31 37 0D		Russian	
~XX70 18	7E 30 30 37 30 20 31 38 0D		Hungarian	
~XX70 19	7E 30 30 37 30 20 31 39 0D		Czechoslovak	
~XX70 20	7E 30 30 37 30 20 32 30 0D		Arabic	
~XX70 21	7E 30 30 37 30 20 32 31 0D		Thai	
~XX70 22	7E 30 30 37 30 20 32 32 0D		Turkish	
~XX70 23	7E 30 30 37 30 20 32 33 0D		Farsi	
~XX70 25	7E 30 30 37 30 20 32 35 0D		Vietnamese	
~XX71 1	7E 30 30 37 31 20 31 0D	Projection	Front-Desktop	
~XX71 2	7E 30 30 37 31 20 32 0D		Rear-Desktop	
~XX71 3	7E 30 30 37 31 20 33 0D		Front-Ceiling	
~XX71 4	7E 30 30 37 31 20 34 0D		Rear-Ceiling	
~XX72 1	7E 30 30 37 32 20 31 0D	Menu Location	Top Left	
~XX72 2	7E 30 30 37 32 20 32 0D		Top Right	
~XX72 3	7E 30 30 37 32 20 33 0D		Centre	
~XX72 4	7E 30 30 37 32 20 34 0D		Bottom Left	
~XX72 5	7E 30 30 37 32 20 35 0D		Bottom Right	
(WXGA only)				
~XX90 1	7E 30 30 39 31 20 31 0D	Screen Type	16:10	
~XX90 0	7E 30 30 39 31 20 30 0D		16:9	
~XX91 1	7E 30 30 39 31 20 31 0D	Signal	Automatic	On
~XX91 0	7E 30 30 39 31 20 30 0D		Automatic	Off
~XX73 n	7E 30 30 37 33 20 a 0D		Frequency	n = -5 (a=2D 35) ~ 5 (a=35) By signal
~XX74 n	7E 30 30 37 34 20 a 0D		Phase	n = 0 (a=30) ~ 31 (a=33 31) By signal
~XX75 n	7E 30 30 37 35 20 a 0D		H. Position	n = -5 (a=2D 35) ~ 5 (a=35) By timing
~XX76 n	7E 30 30 37 36 20 a 0D		V. Position	n = -5 (a=2D 35) ~ 5 (a=35) By timing

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~XX77 n	7E 30 30 37 37 20 aabbcc 0D	Security	Security Timer	Month/Day/Hour n = mm/dd/hh mm = 00 (aa=30 30) ~ 12 (aa=31 32) dd = 00 (bb=30 30) ~ 30 (bb=33 30) hh = 00 (cc=30 30) ~ 24 (cc=32 34)
~XX78 1	7E 30 30 37 38 20 31 0D		Security	On
~XX78 0	7E 30 30 37 38 20 32 0D			Off (0/2 for backward compatible)
~XX79 n	7E 30 30 37 39 20 a 0D	Projector ID		n = 01 (a=30 31) ~ 99 (a=39 39)
~XX80 1	7E 30 30 38 30 20 31 0D	Mute	On	
~XX80 0	7E 30 30 38 30 20 30 0D		Off	
~XX81 n	7E 30 30 38 31 20 a 0D	Volume		n = 0 (a=30) ~ 10 (a=31 30)
~XX82 1	7E 30 30 38 32 20 31 0D	Logo	Optoma	
~XX82 2	7E 30 30 38 32 20 32 0D		User	
~XX83 1	7E 30 30 38 33 20 31 0D	Logo Capture		
~XX88 0	7E 30 30 38 38 20 30 0D	Closed Captioning	Off	
~XX88 1	7E 30 30 38 38 20 31 0D		cc1	
~XX88 2	7E 30 30 38 38 20 32 0D		cc2	
~XX100 1	7E 30 30 31 30 30 20 31 0D	Source Lock	On	
~XX100 0	7E 30 30 31 30 30 20 30 0D		Off	
~XX100 3	7E 30 30 31 30 30 20 33 0D	Next Source		
~XX101 1	7E 30 30 31 30 31 20 31 0D	High Altitude	On	
~XX101 0	7E 30 30 31 30 31 20 30 0D		Off	
~XX102 1	7E 30 30 31 30 32 20 31 0D	Information Hide	On	
~XX102 0	7E 30 30 31 30 32 20 30 0D		Off	
~XX103 1	7E 30 30 31 30 33 20 31 0D	Keypad Lock	On	
~XX103 0	7E 30 30 31 30 33 20 30 0D		Off	
~XX104 1	7E 30 30 31 30 34 20 31 0D	Background Color	Blue	
~XX104 2	7E 30 30 31 30 34 20 32 0D		Black	
~XX104 3	7E 30 30 31 30 34 20 33 0D		Red	
~XX104 4	7E 30 30 31 30 34 20 34 0D		Green	
~XX104 5	7E 30 30 31 30 34 20 35 0D		White	
~XX105 1	7E 30 30 31 30 35 20 31 0D	Advanced	Direct Power On	On
~XX105 0	7E 30 30 31 30 35 20 30 0D			Off
~XX106 n	7E 30 30 31 30 36 20 a 0D		Auto Power Off (min)	n = 0 (a=30) ~ 180 (a=31 38 30) , step=5
~XX107 n	7E 30 30 31 30 37 20 a 0D		Sleep Timer (min)	n = 0 (a=30) ~ 995 (a=39 39 35) , step=5
~XX114 1	7E 30 30 31 31 34 20 31 0D		Power Mode(Standby)	Eco.(<=1W)
~XX114 0	7E 30 30 31 31 34 20 30 0D			Active
~XX109 1	7E 30 30 31 30 39 20 31 0D		Lamp Reminder	On
~XX109 0	7E 30 30 31 30 39 20 30 0D			Off
~XX110 1	7E 30 30 31 31 30 20 31 0D		Brightness Mode	Bright
~XX110 0	7E 30 30 31 31 30 20 30 0D			STD
~XX111 1	7E 30 30 31 31 31 20 31 0D		Lamp Reset	Yes
~XX111 0	7E 30 30 31 31 31 20 30 0D			No
~XX112 1	7E 30 30 31 31 32 20 31 0D	Reset		Yes
~XX210 n	7E 30 30 32 30 30 20 n 0D	Display message on the OSD		n: 1-30 characters

SEND to emulate Remote

~XX140 1	7E 30 30 31 34 30 20 31 0D	Power
~XX140 3	7E 30 30 31 34 30 20 33 0D	Mouse Up
~XX140 4	7E 30 30 31 34 30 20 34 0D	Mouse Left
~XX140 5	7E 30 30 31 34 30 20 35 0D	Mouse Enter
~XX140 6	7E 30 30 31 34 30 20 36 0D	Mouse Right
~XX140 7	7E 30 30 31 34 30 20 37 0D	Mouse Down
~XX140 8	7E 30 30 31 34 30 20 38 0D	Mouse Left Click
~XX140 9	7E 30 30 31 34 30 20 39 0D	Mouse Right Click
~XX140 10	7E 30 30 31 34 30 20 31 30 0D	Up/Page +
~XX140 11	7E 30 30 31 34 30 20 31 31 0D	Left/Source
~XX140 12	7E 30 30 31 34 30 20 31 32 0D	Enter (for projection MENU)
~XX140 13	7E 30 30 31 34 30 20 31 33 0D	Right/Re-SYNC
~XX140 14	7E 30 30 31 34 30 20 31 34 0D	Down/Page -
~XX140 15	7E 30 30 31 34 30 20 31 35 0D	Keystone +
~XX140 16	7E 30 30 31 34 30 20 31 36 0D	Keystone -
~XX140 17	7E 30 30 31 34 30 20 31 37 0D	Volume -
~XX140 18	7E 30 30 31 34 30 20 31 38 0D	Volume +
~XX140 19	7E 30 30 31 34 30 20 31 39 0D	Brightness (1)
~XX140 20	7E 30 30 31 34 30 20 32 30 0D	Menu (2)
~XX140 21	7E 30 30 31 34 30 20 32 31 0D	3D(3)
~XX140 22	7E 30 30 31 34 30 20 32 32 0D	HDMI (4)
~XX140 23	7E 30 30 31 34 30 20 32 33 0D	Freeze (5)
~XX140 24	7E 30 30 31 34 30 20 32 34 0D	AV Mute (6)
~XX140 25	7E 30 30 31 34 30 20 32 35 0D	S-Video (7)
~XX140 26	7E 30 30 31 34 30 20 32 36 0D	VGA (8)
~XX140 27	7E 30 30 31 34 30 20 32 37 0D	Video (9)

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SEND from projector automatically

232 ASCII Code	HEX Code	Function	Projector Return	Description
		System status	INFOn	n : 0/1/2/3/4/6/7/8 = Standby/Warming/Cooling/Out of Range/ Lamp fail/Fan Lock/Over Temperature/Lamp Hours Running Out

READ from projector

232 ASCII Code	HEX Code	Function	Projector Return	Description
~XX121 1	7E 30 30 31 32 31 20 31 0D	Input Source	OKn	n : 0/1/2/3/4/5 = None/VGA1/VGA2/S-Video/Video/HDMI
~XX122 1	7E 30 30 31 32 32 20 31 0D	Software Version	OKdddd	dddd: FW version
~XX123 1	7E 30 30 31 32 33 20 31 0D	Display Mode	OKn	n : 0/1/2/3/4/5/6/7/8 = None/Presentation/Bright/Movie/sRGB/ User/Blackboard/Classroom/3D
~XX124 1	7E 30 30 31 32 34 20 31 0D	Power State	OKn	n : 0/1 = Off/On
~XX125 1	7E 30 30 31 32 35 20 31 0D	Brightness	OKn	
~XX126 1	7E 30 30 31 32 36 20 31 0D	Contrast	OKn	
~XX127 1	7E 30 30 31 32 37 20 31 0D	Aspect Ratio	OKn	(EW610ST) n: 0/1/2/3/4 = 4:3/16:9 or 16:10 */LBX/Native/AUTO (EX610ST) n: 0/1/2/3/4 = 4:3/16:9-I/16:9-II/Native/AUTO *16:9 or 16:10 depend on Screen Type setting
~XX128 1	7E 30 30 31 32 38 20 31 0D	Color Temperature	OKn	n : 0/1/2 = Warm/Medium/Cold
~XX129 1	7E 30 30 31 32 39 20 31 0D	Projection Mode	OKn	n : 0/1/2/3 = Front-Desktop/Rear-Desktop/Front-Ceiling/Rear-Ceiling
~XX150 1	7E 30 30 31 35 30 20 31 0D	Information	OKabbbbccddddde	a : 0/1 = Off/On bbbb: Lamp Hour cc: source 00/01/02/03/04/05= None/VGA1/VGA2/S-Video/Video/HDMI dddd: FW version e : Display mode 0/1/2/3/4/5/6/7/8= None/Presentation/Bright/Movie/sRGB/User/ Blackboard/Classroom/3D
~XX151 1	7E 30 30 31 35 31 20 31 0D	Model name	OKn	n: 6/7/8/9=EW610ST/EX610ST/EW605ST/EX605ST
~XX108 1	7E 30 30 31 30 38 20 31 0D	Lamp Hours	OKbbbb	bbbb: Lamp Hour
~XX108 2	7E 30 30 31 30 38 20 31 0D	Cumulative Lamp Hours	OKbbbbb	bbbbb: (5 digits) Total Lamp Hours

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Ceiling Mount Installation

1. To prevent damage to your projector, please use the Optoma ceiling mount.
2. If you wish to use a third party ceiling mount kit, please ensure the screws used to attach a mount to the projector meet the following specifications:
   - Screw type: M3*3
   - Maximum screw length: 10mm
   - Minimum screw length: 7.5mm

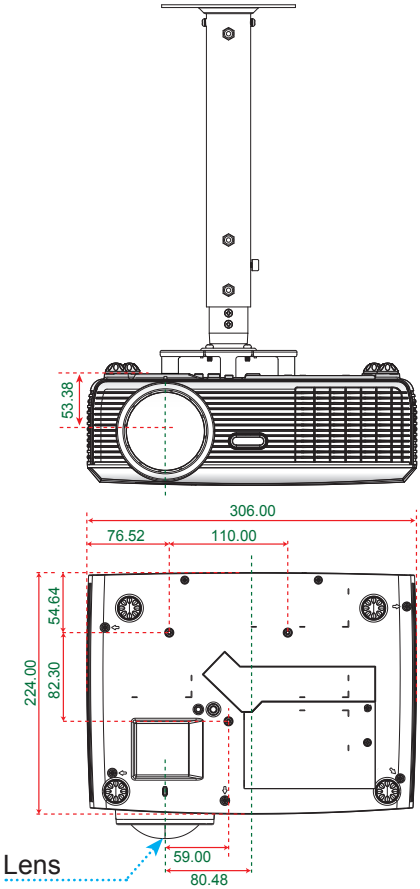
NOTE

❖ Please note that damage resulting from incorrect installation will void the warranty.

NOTE

⚠ Warning:

1. If you buy a ceiling mount from another company, please be sure to use the correct screw size. Screw size will vary depending on the thickness of the mounting plate.
2. Be sure to keep at least 10 cm gap between the ceiling and the bottom of the projector.
3. Avoid installing the projector near a heat source.



Unit: mm

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Regulation & Safety Notices

This appendix lists the general notices of your projector.

FCC notice

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice: Shielded cables

All connections to other computing devices must be made using shielded cables to maintain compliance with FCC regulations.

Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority, which is granted by the Federal Communications Commission, to operate this projector.

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Operation conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference and
2. This device must accept any interference received, including interference that may cause undesired operation.

Notice: Canadian users

This Class B digital apparatus complies with Canadian ICES-003.

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU countries

- EMC Directive 2004/108/EC (including amendments)
- Low Voltage Directive 2006/95/EC
- R & TTE Directive 1999/5/EC (if product has RF function)

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

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